0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.07.2003)
0-5	Petition	
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Korean Intellectual Property Office (RO/KR)
0-7	Applicant's or agent's file reference	P11653-PCT
Ī	Title of invention	ULTRA WIDEBAND RADIO TRANSMITTER, ULTRA WIDEBAND RADIO RECEIVER, AND ULTRA WIDEBAND RADIO COMMUNICATION METHOD
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
11-4	Name	SAMSUNG ELECTRONICS CO., LTD.
II-5	Address:	416, Maetan-dong, Paldal-gu, Suwon-shi 442-370 Kyungki-do Republic of Korea
11-6	State of nationality	KR
11-7	State of residence	KR
11-8	Telephone No.	82-31-280-9168
11-9	Facsimile No.	82-31-280-9156
II-10	e-mail	sdhwa@samsung.com
111-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	Nagasaka, Hiroyuki
III-1-5	Address:	2-7, Sugasawa-cho, Tsurumi-ku
		Yokohama, Kanagawa 230-0027
		Japan
III-1-6	State of nationality	JP
III-1-7	State of residence	JP

IV-1	Agent or common representative; or address for correspondence	
	The person identified below is	agent
	hereby/has been appointed to act on	
	behalf of the applicant(s) before the competent International Authorities as:	
IV-1-1	Name (LAST, First)	LEE, Keon-Joo
IV-1-2	Address:	Mihwa Bldg. 110-2, Myongryun-dong 4-ga,
		Chongro-gu
		110-524 Seoul
		Republic of Korea
IV-1-3	Telephone No.	82-2-744-0305
IV-1-4	Facsimile No.	82-2-743-5247
IV-1-5	e-mail	kjlp@unitel.co.kr
V	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment,	AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZM
	if any, are specified between	ZW and any other State which is a
	parentheses after the designation(s)	Contracting State of the Harare Protocol
	concerned)	and of the PCT
		EA: AM AZ BY KG KZ MD RU TJ TM and any
		other State which is a Contracting State
		of the Eurasian Patent Convention and of
		the PCT
		EP: AT BE BG CH&LI CY CZ DE DK EE ES FI
		FR GB GR HU IE IT LU MC NL PT RO SE SI
		SK TR and any other State which is a
	·	Contracting State of the European Patent
		Convention and of the PCT
		OA: BF BJ CF CG CI CM GA GN GQ GW ML MR
		NE SN TD TG and any other State which is
		a member State of OAPI and a Contracting
		State of the PCT
V-2	National Patent (other kinds of protection or treatment,	AE AG AL AM AT AU AZ BA BB BG BR BY BZ
	if any, are specified between	CA CHELI CN CO CR CU CZ DE DK DM DZ EC
	parentheses after the designation(s) concerned)	EE EG ES FI GB GD GE GH GM HR HU ID IL
	Jones Medical Control of the Control	IN IS KE KG KP KR KZ LC LK LR LS LT LU
		IV MA MD MG MK MN MW MX MZ NI NO NZ OM
		PG PH PL PT RO RU SC SD SE SG SK SL SY
		TJ TM TN TR TT TZ UA UG US UZ VC VN YU
		ZA ZM ZW

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IX-2 Description IX-3 Claims IX-4 Abstract IX-5 Drawings IX-7 TOTAL Accompan IX-8 Fee calcula IX-9 Original sep IX-11 Copy of ger		number of sheets	<u> </u>
IX-3 Claims IX-4 Abstract IX-5 Drawings IX-7 TOTAL Accompan IX-8 Fee calcula IX-9 Original sep IX-11 Copy of ger	t (including declaration sheets)	4	-
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IX-11 Copy of ger	culation sheet	<b>~</b>	-
1.,,	separate power of attorney		_
W 47 BOT EAGY	general power of attorney	<b>√</b>	
IX-17 PCT-EASY	ASY diskette	-	Diskette
	of the drawings which should pany the abstract	1	

IX-20	Language of filing of the international application	Korean
X-1	Signature of applicant, agent or common representative	
X-1-1	Name (LAST, First)	LEE, Keon-Joo

## FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/KR
10-6	Transmittal of search copy delayed until search fee is paid	

#### FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by	
	the International Bureau	

# PCT (ANNEX - FEE CALCULATION SHEET) Original (for SUBMISSION) - printed on 21.11.2003 01:32:59 PM

(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only			•
0-1	International Application No.			
0-2	Date stamp of the receiving Office			
0-4	Form - PCT/RO/101 (Annex) PCT Fee Calculation Sheet			
0-4-1	Prepared using	PCT-EASY Vers		
		(updated 01.0	7.2003)	
0-9	Applicant's or agent's file reference	P11653-PCT		
2	Applicant	SAMSUNG ELECT	RONICS CO., LT	D., et al.
12	Calculation of prescribed fees	fee amount/multiplier	Total amounts (KRW)	
12-1	Transmittal fee	₽	45,000	
12-2-1	Search fee	$\Rightarrow$	150,000	
12-2-2	International search to be carried out by	KR		
12-3	International fee		Ì	
	Basic fee			
	(first 30 sheets) b	530,000		
12-4	Remaining sheets	51		
12-5	Additional amount (X	12,000	1	
12-6	Total additional amount b2	612,000	1	
12-7	b1 + b2 = E	1,142,000		
12-8	Designation fees		1	
	Number of designations contained in international application	J.		
12-9	Number of designation fees payable (maximum 5)	5	·	
12-10	Amount of designation fee (X	114,000		
12-11	Total designation fees C	570,000		
12-12	PCT-EASY fee reduction F	-163,000		
12-13	Total International fee (B+D-R)	⇒	1,549,000	
12-17	TOTAL FEES PAYABLE (T+S+I+P)	⇨	1,744,000	
12-19	Mode of payment	cash		

#### **VALIDATION LOG AND REMARKS**

13-2-1	Validation messages Request	Green? A translation of the international application into English will have to be prepared under the responsibility of the
		ISA selected.  Green?
		Please note that the entire request (including the title of invention) must be in English

# PCT (ANNEX - FEE CALCULATION SHEET) Original (for SUBMISSION) - printed on 21.11.2003 01:32:59 PM

		Green?
		The title of the invention shall be
		short and precise. Please verify.
13-2-2	Validation messages States	Green?
		More designations could be made. The
		following States have not been
		designated: JP. Please verify.
13-2-3	Validation messages	Green?
	Names	Applicant 2.: Last name should
		preferably be entered in capital
		letters. Please verify.
13-2-7	Validation messages	Green?
	Contents	Priority 1. The priority document is not
		enclosed. (The applicant must furnish it
		within 16 months from the earliest
		priority date claimed)
		Green?
		Reference number for attached copy of
		general power of attorney not indicated.
		Yellow
		Accompanying item "original separate
		power of attorney" has not been
	1	indicated as enclosed.
13-2-8	Validation messages	Green?
10-2-0	Fees	Please confirm that fee schedule
		utilized is the latest available
13-2-1		
13-2-1	Validation messages For receiving Office/International Bureau use only	Green?
		Verify electronic data for consistency
	<u></u>	against printed form.